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•	· CENTRAL INTELLIGENCE AGENCY	REPORT
	imformation report	CD NO.
OUNTRY	USSR (Saratov Chlast)	DATE DISTR. 50X1-HUM
UBJECT	Saratov Ball Bearing Factory (GPZ)	NO. OF PAGES 2
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1.	Location: This factory is about three kild Volpa, eight kilometers northwest of the Vo and onnosite the Suratov military airfield third largest in Suratov: the airplane factinery exceed it in size. The commound is 700 meters, but the northwest half is under it is reported that new construction in this	olfa railroad bridge, The plant is the ctory and oil re- approximately 600 x
2.	Installations (See Attachments I and II for tion and man of the installations): The basis new, was built between the two World Var fore 1930. War damage was slight with only corner of Block W bombed.	r detailed descrip- all bearing plant rs. probably not be-
3.	The technical equipment of the factory is mat the end of 1946 many German machines were 1949 American equipment arrived. Electric Saratov-Tets and Saratov-Gres power plants tries rely on electricity, natural gas, and railroad sour connects with the main railroad to has approach tracks. Since the plant shunting service is done by engines of the	re received, and in current is supplied by s. Saratov indus- oil for power. A pad, and each sec- has no locomotives.
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4°	The technical equipment of the factory is mat the end of 1946 many German machines were 1949 American equipment arrived. Electric Saratov-Tets and Saratov-Gres power plants tries rely on electricity, natural gas, and railroad sour connects with the main railroation has approach tracks. Since the plant shunting service is done by engines of the ed railroad. As is the rule in new Pussian industrial in ministration offices are housed in each section second floor. Production: Ball bearings, varying in diam millimeters to 20 centimeters, are produced 200,000 in three shifts. In the same period 22,000 rings are also finished. Waste in the same period 22,000 rings are also finished. Waste in the same period 22,000 rings are also finished.	re received, and in current is supplied by s. Saratov indus- oil for nower. A coad, and each sechas no locomotives, Russian state-own- estallations, adection, usually on meter from a few at the rate of cod about 20,000 ls 2 to 5%. (1)

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Finished ball bearings are wrapped in oil paper and boxed for shipment to Moscow or the Urals. Usually shipment is by rell and only occasionally by truck.

- 6. Some colored castings are produced. These ring-like forms, eight centimeters high and eight centimeters in diameter, have square teeth half way around like a crown.
- 7. Production is 115 to 150% above production plans.
- 8. <u>Management</u>: The main director was (fnu) Orlov, who occupies a luxurious office in the factory. Although he seldom made an appearance, it is reported that he is quiet, well-educated, but conceited. His position was apparently well-established, since production has been more than expected. Cormissions, including high ranking Soviet Army officers, visited about once a month.
- o. Personnel: It is estimated that approximately 10,000 workers for three shifts are employed by the plant. At times 900 PW's were also engaged in production. Numerous Stakhanov workers, who produce up to 500% above quotas and set the pace for the high production rate, are employed.
- 10. Security measures: Surrounded by wall and barbed wire, the plant is protected by factory guards with dogs. Watchtowers are placed at intervals along the enclosure.

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l sketch man of Saratov bell bearing factory

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(1) Comm	ent:						e p ercent a			
defective products a	t the	Saratov	Bearing	Factory	was	high,	possibl,	45	percent	
of the total produc	tion.	*							50X1	1-HUM

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ATTACHMEUT I

KFY TO SKETCH MAP OF SAFATOV RALL PRAPING FACTORY

- Block A. Size is about 30 x 150 meters. This is a workshop for making small iron construction nieces needed for buildings under construction. These small pieces are mounted on larger sections. The shop is not completely finished and equinned.
- Block B. This large factory building, 30 x 150 meters, was built after $1^{0.4}$. It is divided into three sections as follows:
 - Garage with space for 40 trucks and a remain show.

 - Welding shop. Part assembly is done here.
 Lathe, milling, drilling, and grinding shop. The machinery is for the most part American, including combination machines the size of a small house which lathe, mill, grind, and drill simultaneously. There are about 40 standard and ten to twelve extra large combination workbenches. Small machine parts for the factory's use are made here.
- Checking voints.
- Offices and workshops. 40 x 200 meters.
- Large building under construction. Then this building, which has been under construction for a long time is finished, it should be about the size of Block W and similarly equipped. Production should increase 50 to 100%. Large quantities of the newest type machine tools to equip this section have arrived and are stored on both sides of the railroad spur leading into the compound. The section now finished (4) will form the east side of the new building and house offices on the second floor.
- Block W. This building is 200 x 230 meters and houses 30 sections. Here bell bearings of all sizes are produced, finished, assembled, stored, and finally shipped via the railroad spur extending along the scuth side of the building. The east side of the building has two stories with offices occurying the second floor.
 - Tempering show.
 - Foundry. Factory tools when in demand are cast here. b.
 - Press shon.
 - d. Ball bearing production. Automatic machines are arranged in rows for mass production.
 - memnering shop.
 - Production section. f.
 - Welding shon.
 - ho Assembly section.
 - Offices. 10
- Storage for chemicals.
- Transformer installation.
- Boiler house. For heating purposes only.
- Assembly. A large building on the site of an old installation
- Forge. This building was built after 1945 and is 50 x 100 meters and 14 meters high. In the northern half of the building ten or twelve automatic presses stamp out ball bearing rings. These presses are about five meters long and four meters high, one and a half of which are buried in the ground.

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CENTRAL INTELLIGENCE AGENCY ATTACHMENT I

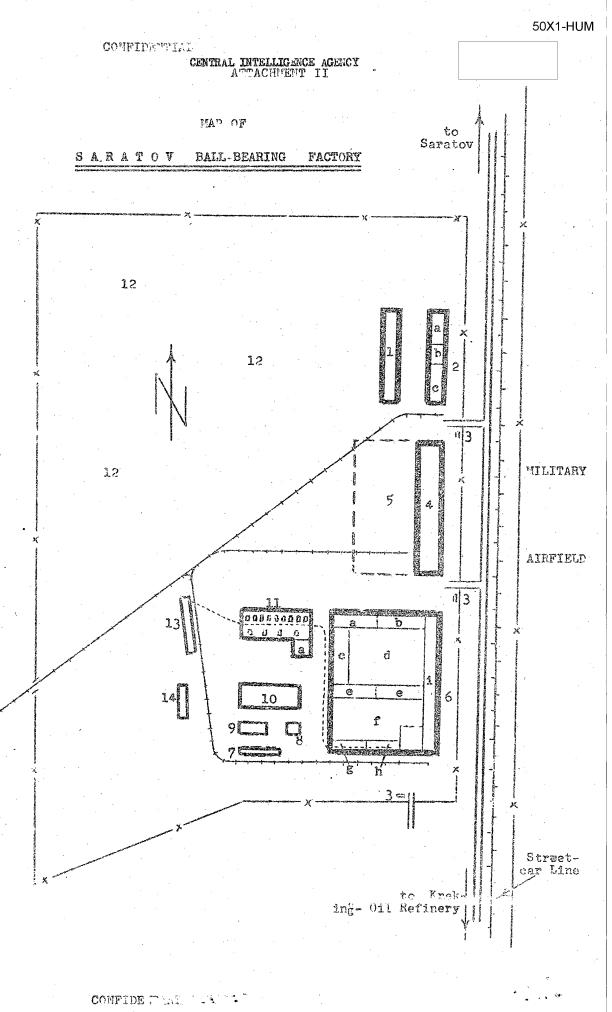
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To the rear of the automatic presses is a wheel, two and one half meters in diameter. In front of the presses is the automatic device for feeding steel bars (eight to ten centimeters in diameter) into the machines. These machines, operating on compressed air, are controlled by foot pedals. By stepping on the pedal twice the two impressions necessary to produce a finished ring are accomplished. In the southern half of the building are four or five large presses on which larger pieces are forwarded by an electric crane having a rive-ton canacity.

- 12. Unused area for future expansion.
- 13. Storage denot.
- 14. Carpenter shop.

HITE SIZE ONE COLORAD SON AUX BETT-1914 HITE AUX 1925. THE COLORAD SON COLORAD	Dump car tracks, hand operated
en enacement of the contraction	Wall or barbed wire fence.
	Street car line.
	Pailroad spur

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